

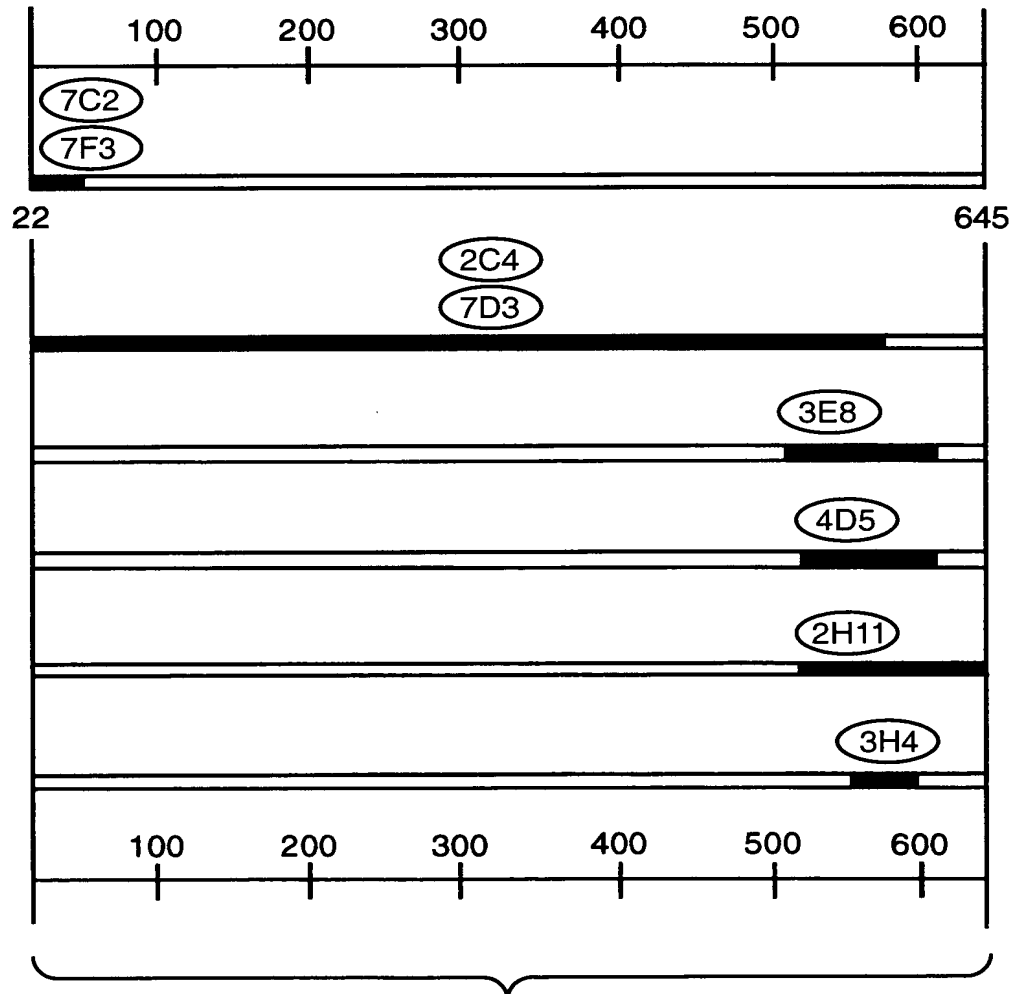
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1 MELAALCRWG LLLALLPPGA ASTQVCTGTD MKLRLPASPE THLDMLRHLY QGCQVVQGNL ELTYLPTNAS LSFLQDIEV QGYVLIHNO VRQVPLQRLR  
101 IVRGTQLFED NYALAVLDNG DPLNNTTPVT GASPGGLREL QLRSLTEILK GGVLIQRNPQ LCYQDTILWK DIFHKNNQLA LTLIDTNRSR ACHPCSPMCK  
201 GSRCWGESSE DCQSLTRTVC AGGCARCKGP LPTDCCHEQC AAGCTGPKHS DCLACLHFNH SGICELHCPA LVTYNTDTFE SMPNPEGRYT FGASCVTACP  
301 YNYLSTDVGS CTLVCPPLHNQ EVTAEDGTOR CEKCSKPCAR VCYGLGMEHL REVRAVTSAN IQEFAGCKKI FGSLAFLPES FDGDPASNTA PLQPEQLQVF  
401 ETTLEETGYL YISAWPDSLP DLSVFQNLQV IRGRILHNGA YSLTLQGLGI SWLGLRSLRE LGSGLALIHH NTHLCFVHTV PWDQLFRNPH QALLHTANRP  
501 EDECVGEGLA CHQLCARGHC WGPGPQTQCN CSQFLRGQEC VEECRVLQGL PREYVNAHRC LPCHPECQPO NGSVTCFGPE ADQCVACAHY KDPPFFCVARC  
601 PSGVKPDLISY MPIWKFPDEE GACQPCPINC THSCVDLDDK GCPAE (SEQ ID NO: 13)

**FIG. 1A**

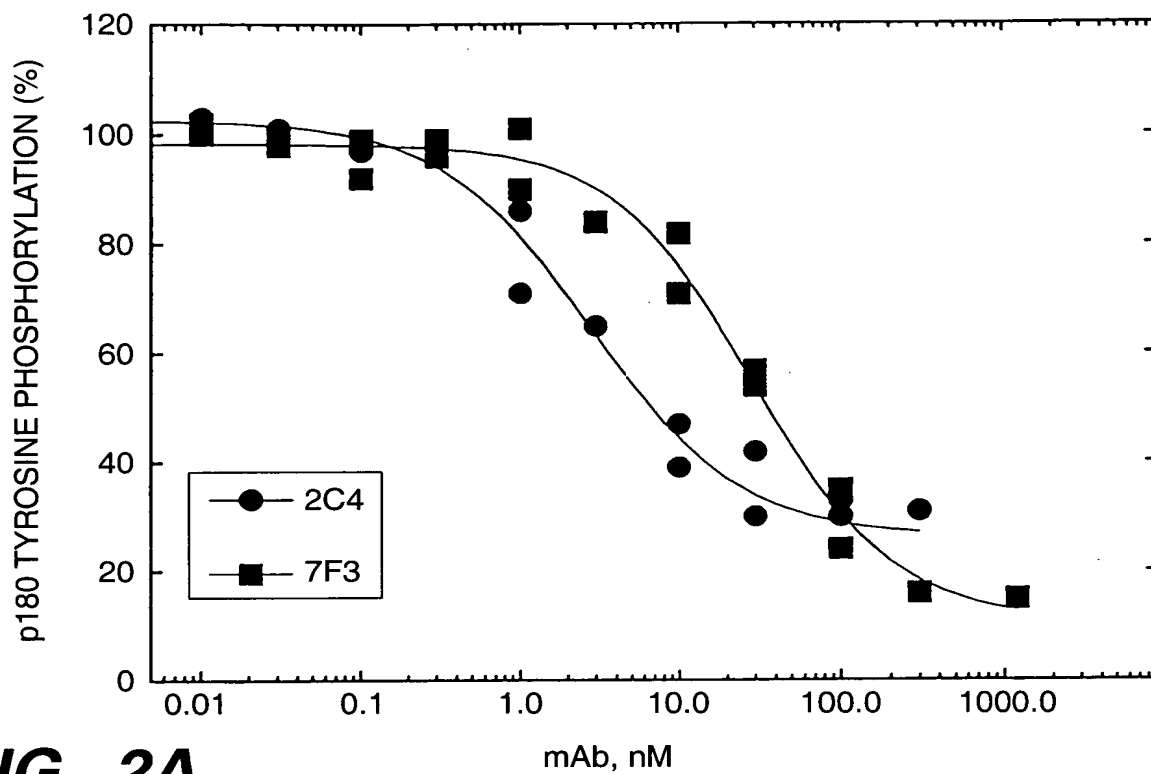
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7C2	aa	22-53	(31 RESIDUES)
7F3	aa	22-53	(31 RESIDUES)
2C4	aa	22-584	(562 RESIDUES)
7D3	aa	22-584	(562 RESIDUES)
3E8	aa	512-625	(113 RESIDUES)
4D5	aa	529-625	(96 RESIDUES)
2H11	aa	529-645	(116 RESIDUES)
3H4	aa	541-599	(58 RESIDUES)

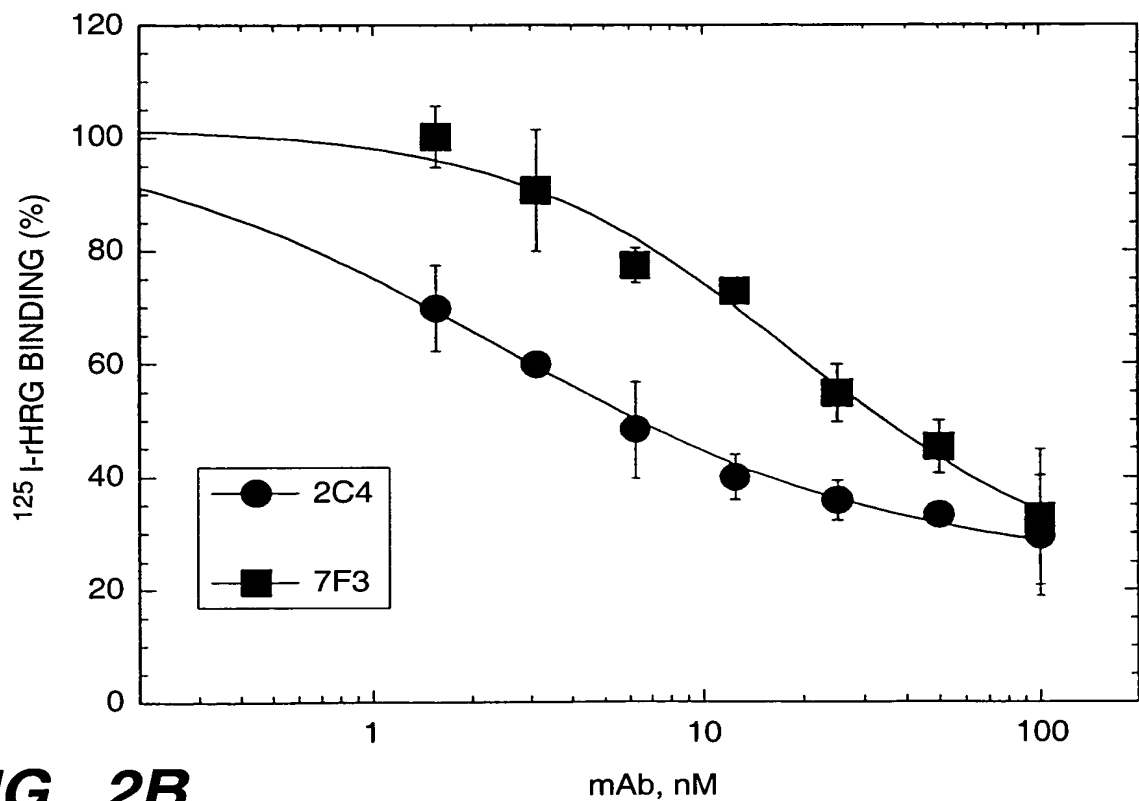


**FIG. 1B**

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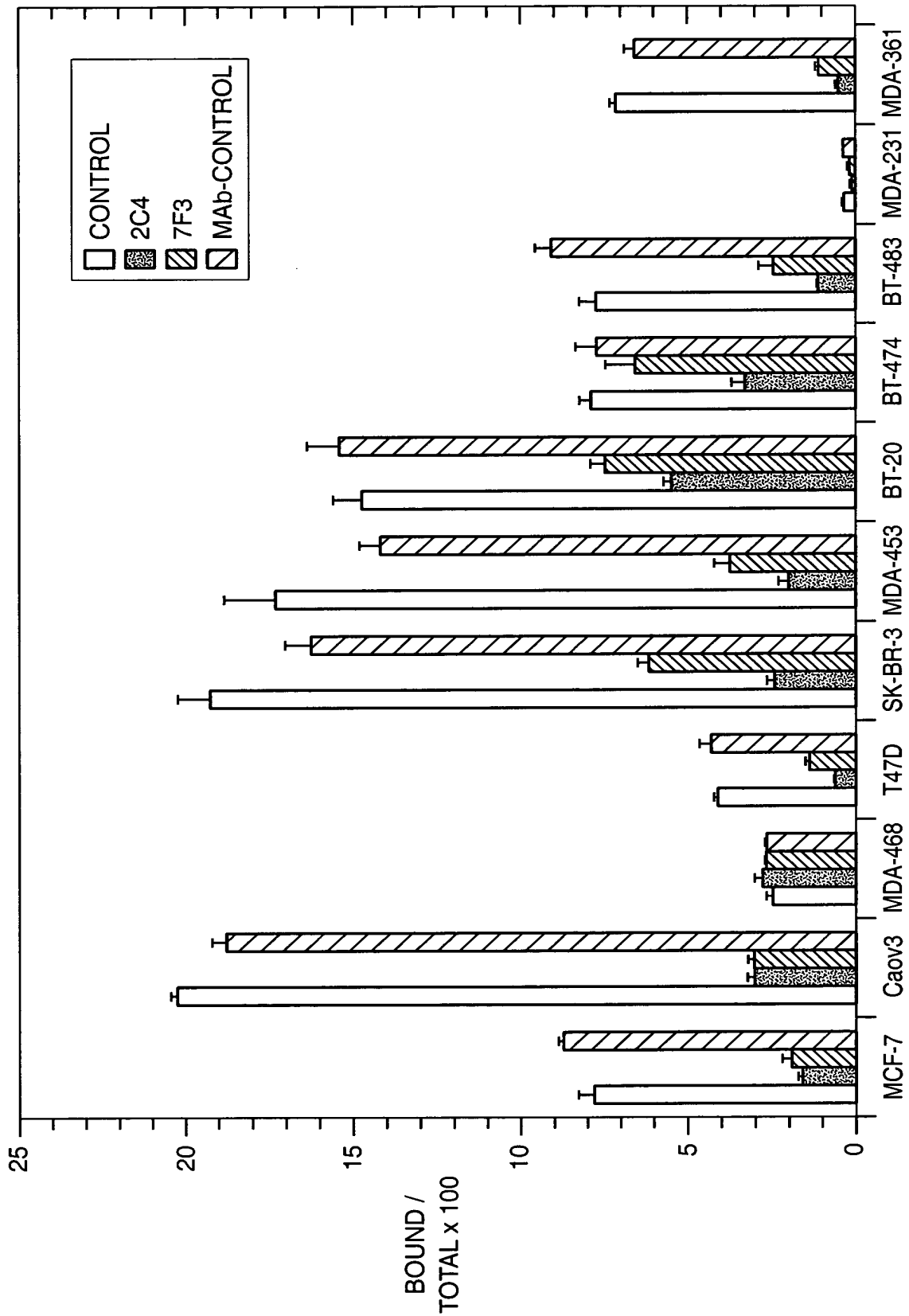


**FIG. 2A**



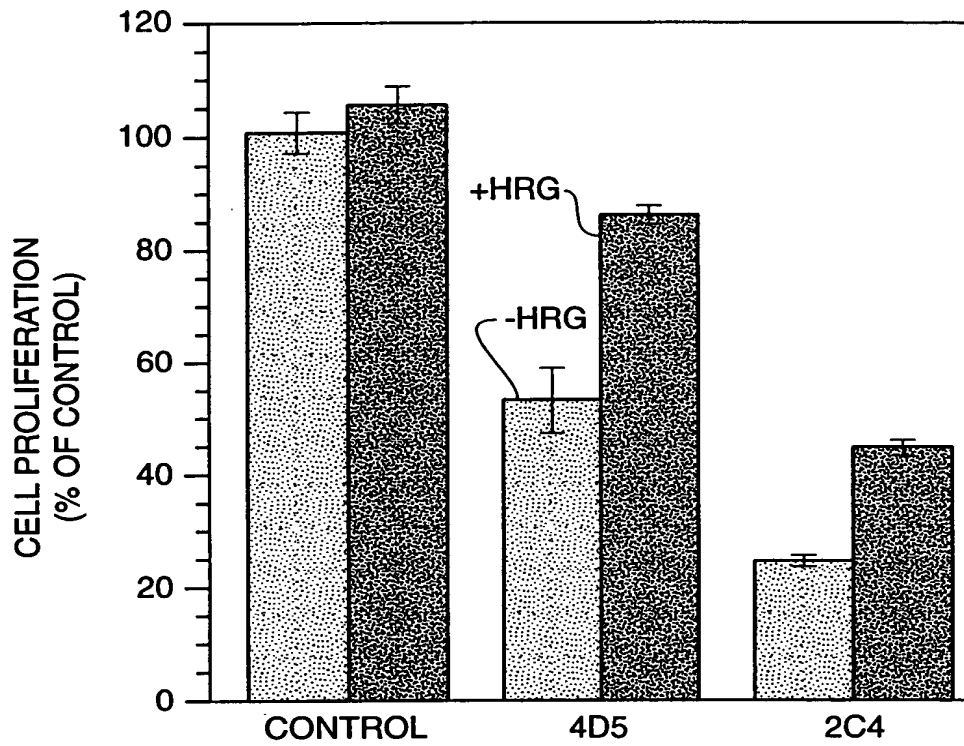
**FIG. 2B**

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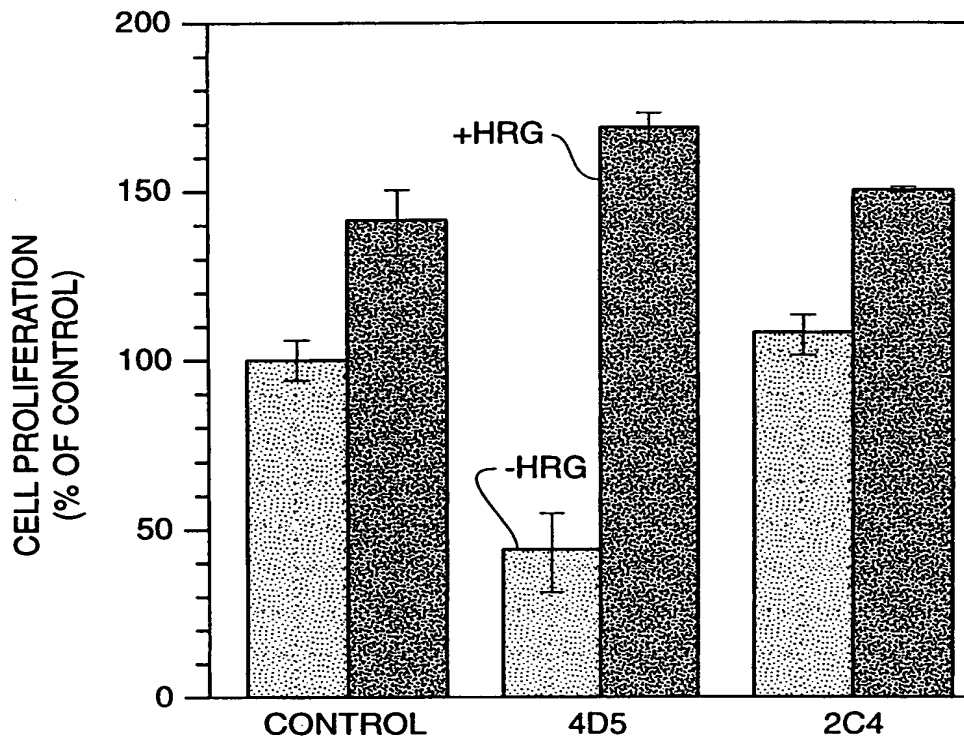


**FIG.\_3**

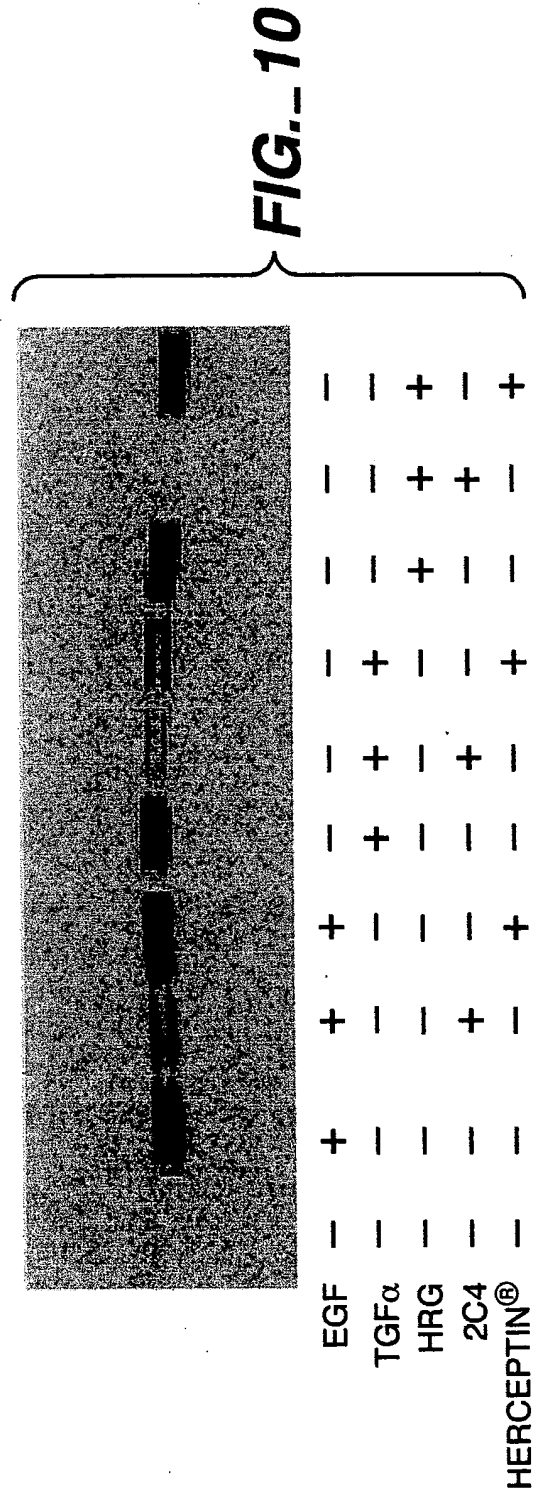
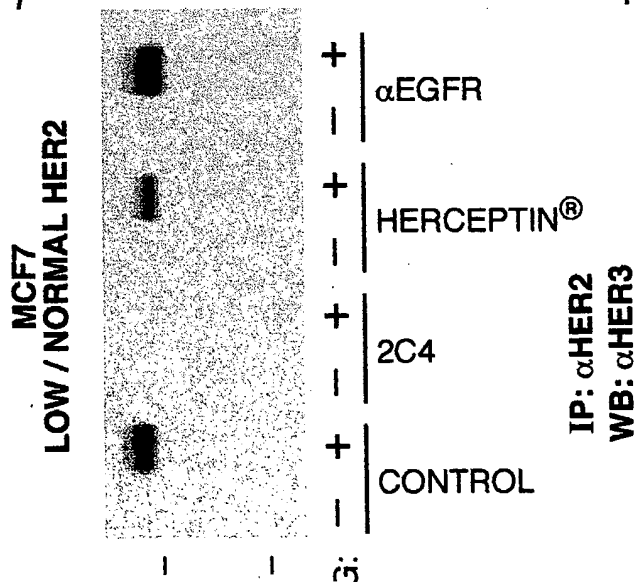
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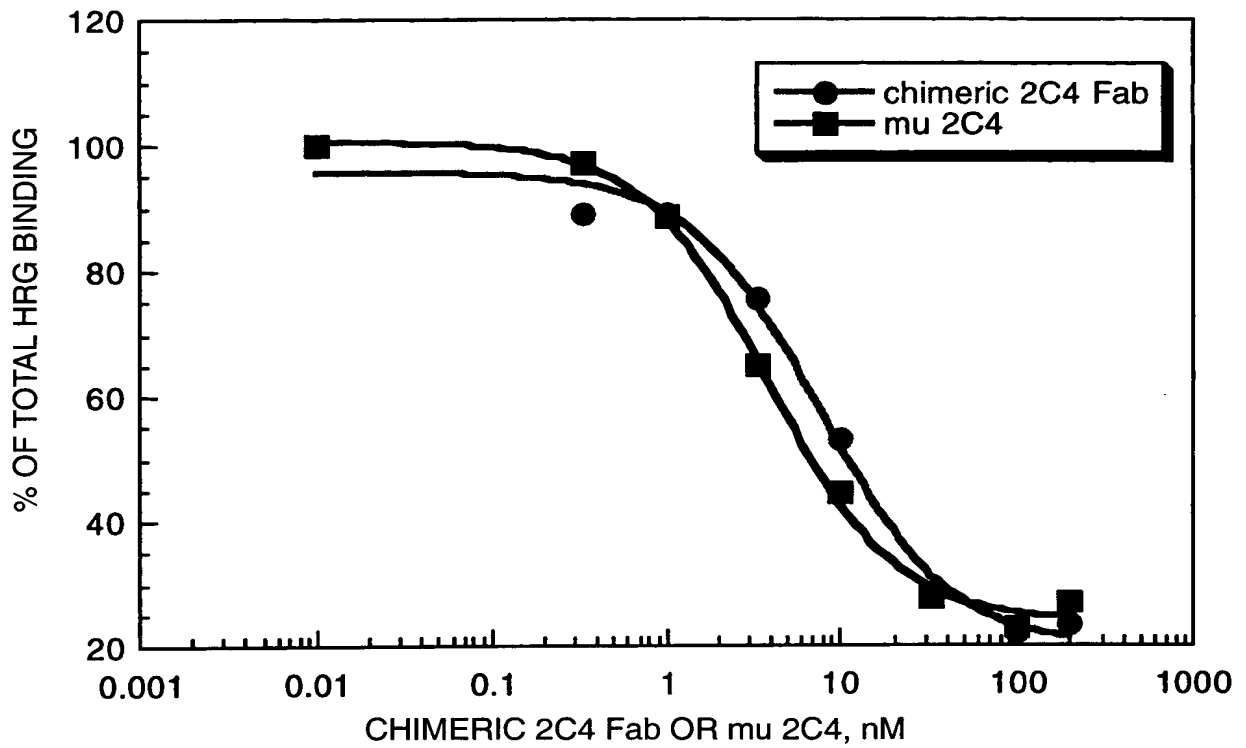
**FIG. 4A**



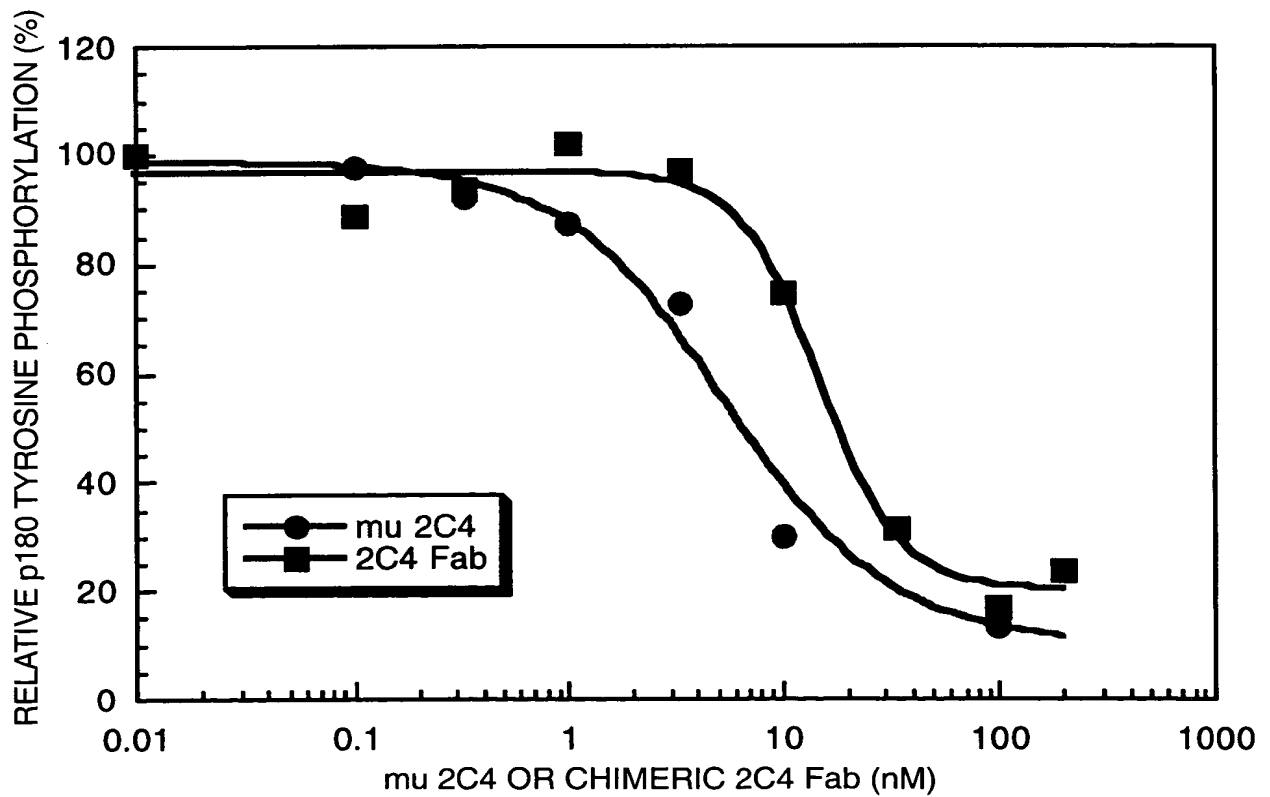
**FIG. 4B**



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**FIG. 6A**



**FIG. 6B**

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VARIABLE LIGHT

	10	20	30	40
2C4	DTVMTQSHKIMSTSVGDRVSITC	[KASQDVSIGVA]	WYQQR	P
	**      *****	*		*
574	DIQMTQSPSSLSASVGDRVTITC	[KASQDVSIGVA]	WYQQKP	
		*      **      ***		
hum κI	DIQMTQSPSSLSASVGDRVTITC	[RASQISNYLA]	WYQQKP	

	50	60	70	80
2C4	GQSPKLLIY [SASYRYT]	GVPDRFTGSGSGTDFTFTISSVQA		
	**                      *	*	*	*
574	GKAPKLLIY [SASYRYT]	GVPSRFSGSGSGTDFTLTISLQ		
	*      *****			
hum κI	GKAPKLLIY [AASSLES]	GVPSRFSGSGSGTDFTLTISLQ		

	90	100	
2C4	EDLAVYYC [QQYYIYPYT]	FGGGTKLEIK (SEQ ID NO:1)	
	*   *	*   *	
574	EDFATYYC [QQYYIYPYT]	FGQGTKVEIK (SEQ ID NO:3)	
	*** *		
hum κI	EDFATYYC [QQYNSLPWT]	FGQGTKVEIK (SEQ ID NO:5)	

**FIG. 7A**

VARIABLE HEAVY

	10	20	30	40
2C4	EVQLQQSGPELVKPGTSVKISCKAS	[GFTFTDYTMD]	WVKQS	
	**      **      *	*      *****		*
574	EVQLVESGGGLVQPGGSLRLS	CAAS [GFTFTDYTMD]	WVRQA	
		***      *		
hum III	EVQLVESGGGLVQPGGSLRLS	CAAS [GFTFSSYAMS]	WVRQA	

	50	a	60	70	80
2C4	HGKSLEWIG [DVNPNSGGSIYNQRFKG]	KASLTVDRSSRIVYM			
	*   *      **	***   *	***** *		
574	PGKGLEWVA [DVNPNSGGSIYNQRFKG]	RFTLSVDRSKNTLYL			
	*****      **      *****				
hum III	PGKGLEWVA [VISGDGGSTYYADSVKG]	RFTISRDNKNTLYL			

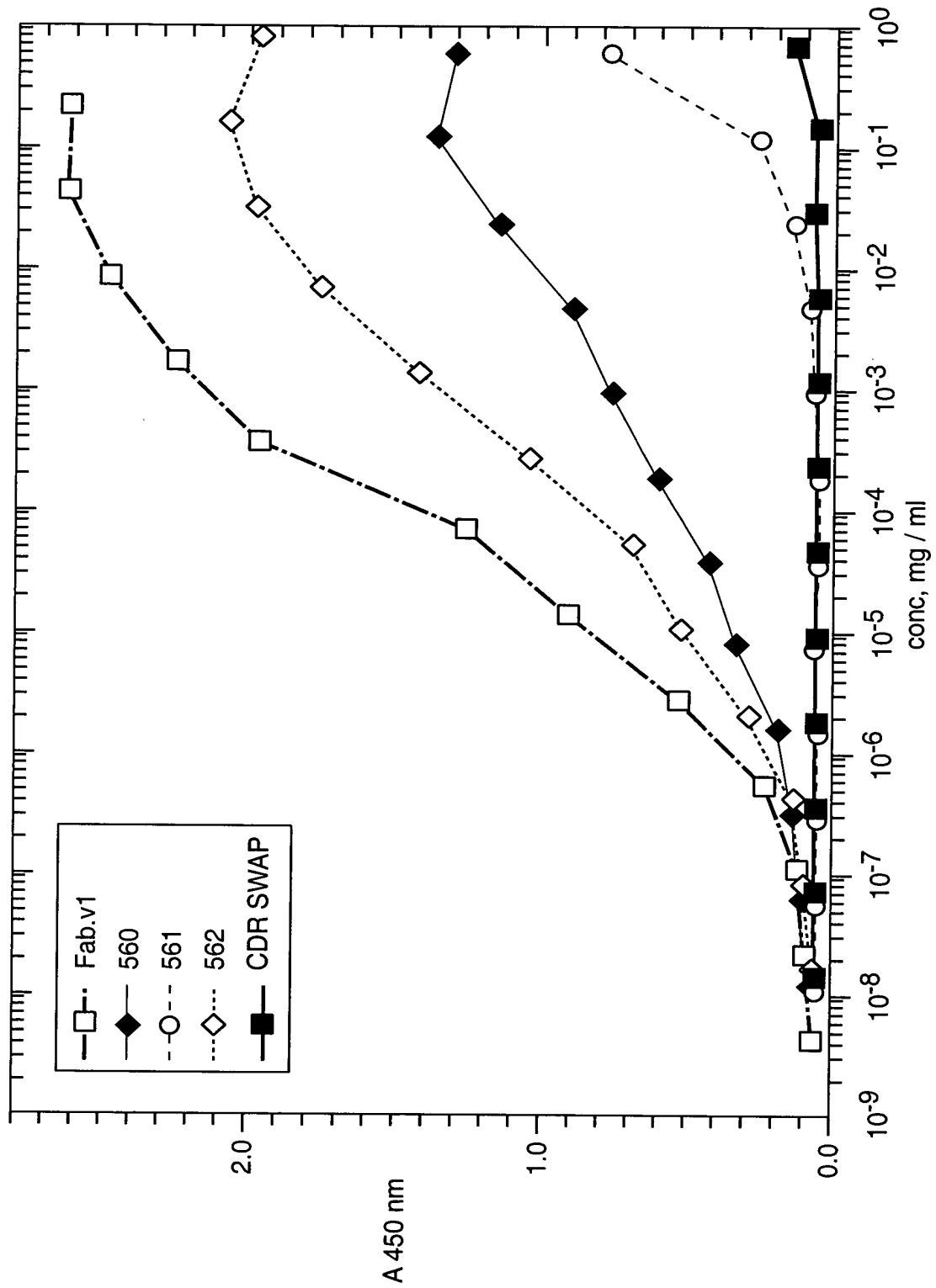
  

	abc	90	100ab	110
2C4	ELRSLTFEDTAVYYCAR	[NLGPSFYFDY]	WGQGTTLTVSS (SEQ ID NO:2)	
	***      **		**	
574	QMNSLRAEDTAVYYCAR	[NLGPSFYFDY]	WGQGTTLTVSS (SEQ ID NO:4)	
		*****		
hum III	QMNSLRAEDTAVYYCAR	[GRVGYSLYDY]	WGQGTTLTVSS (SEQ ID NO:6)	

**FIG. 7B**

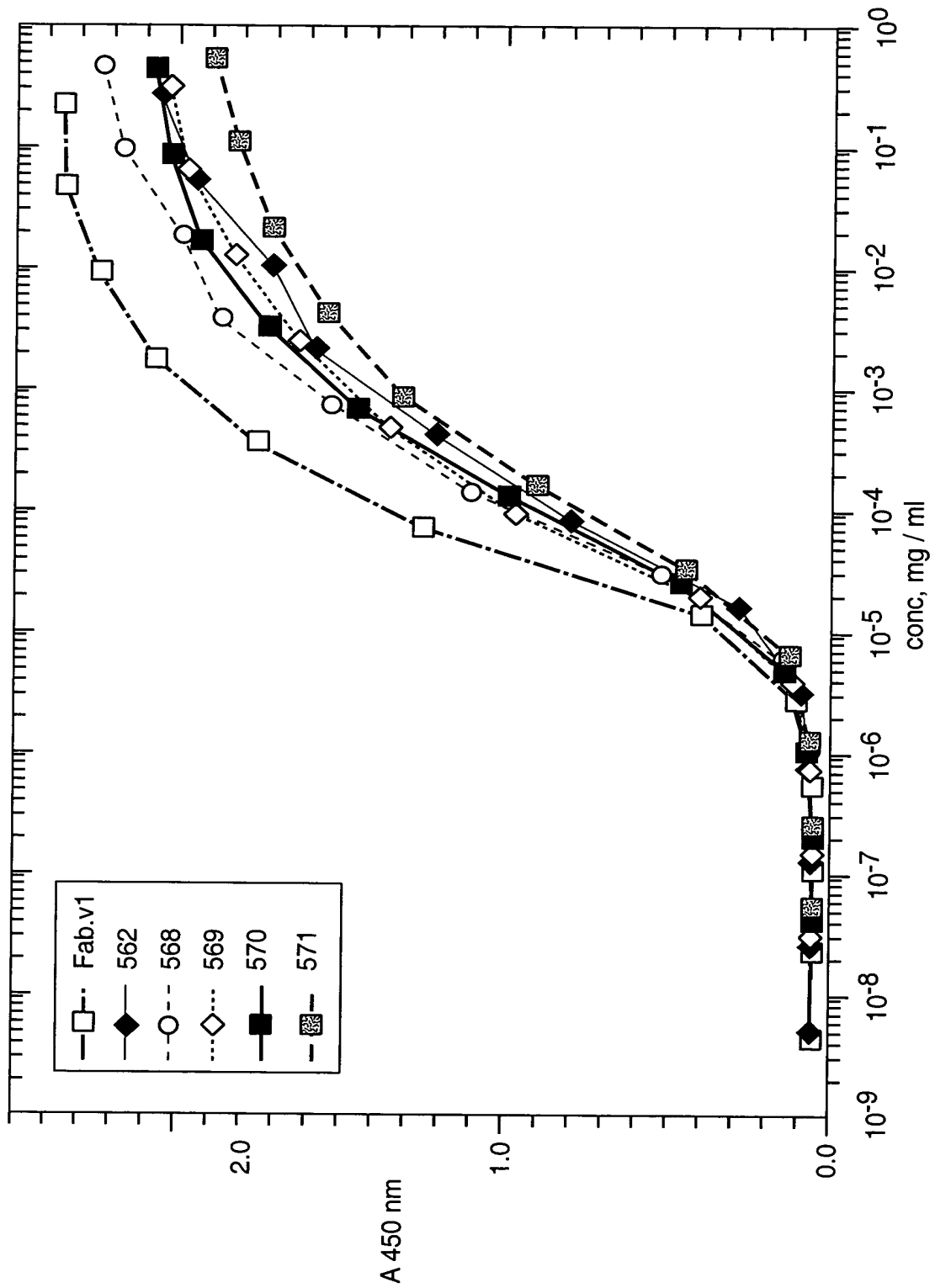


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**FIG.\_8A**

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**FIG. 8B**

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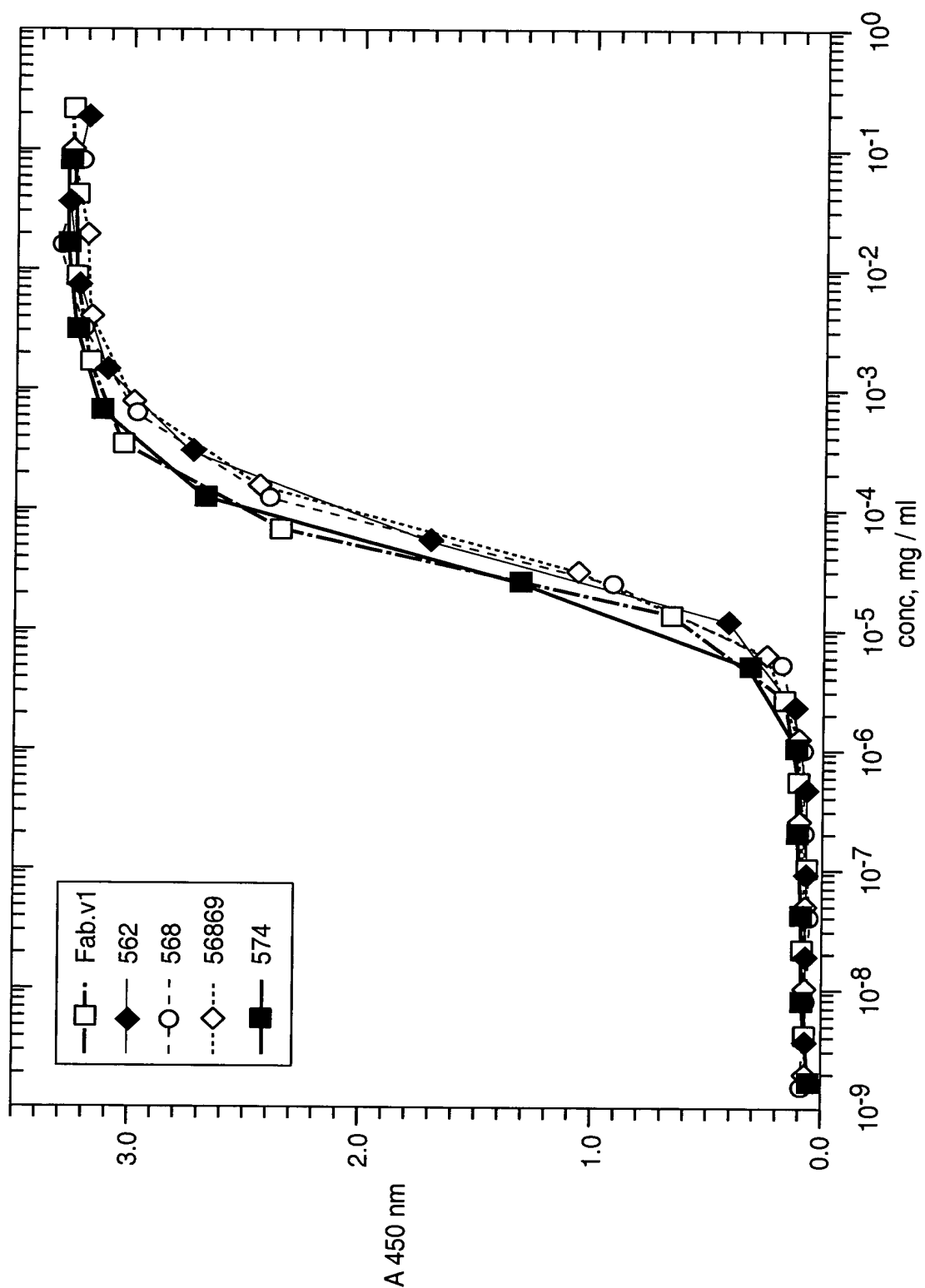


FIG.\_8C

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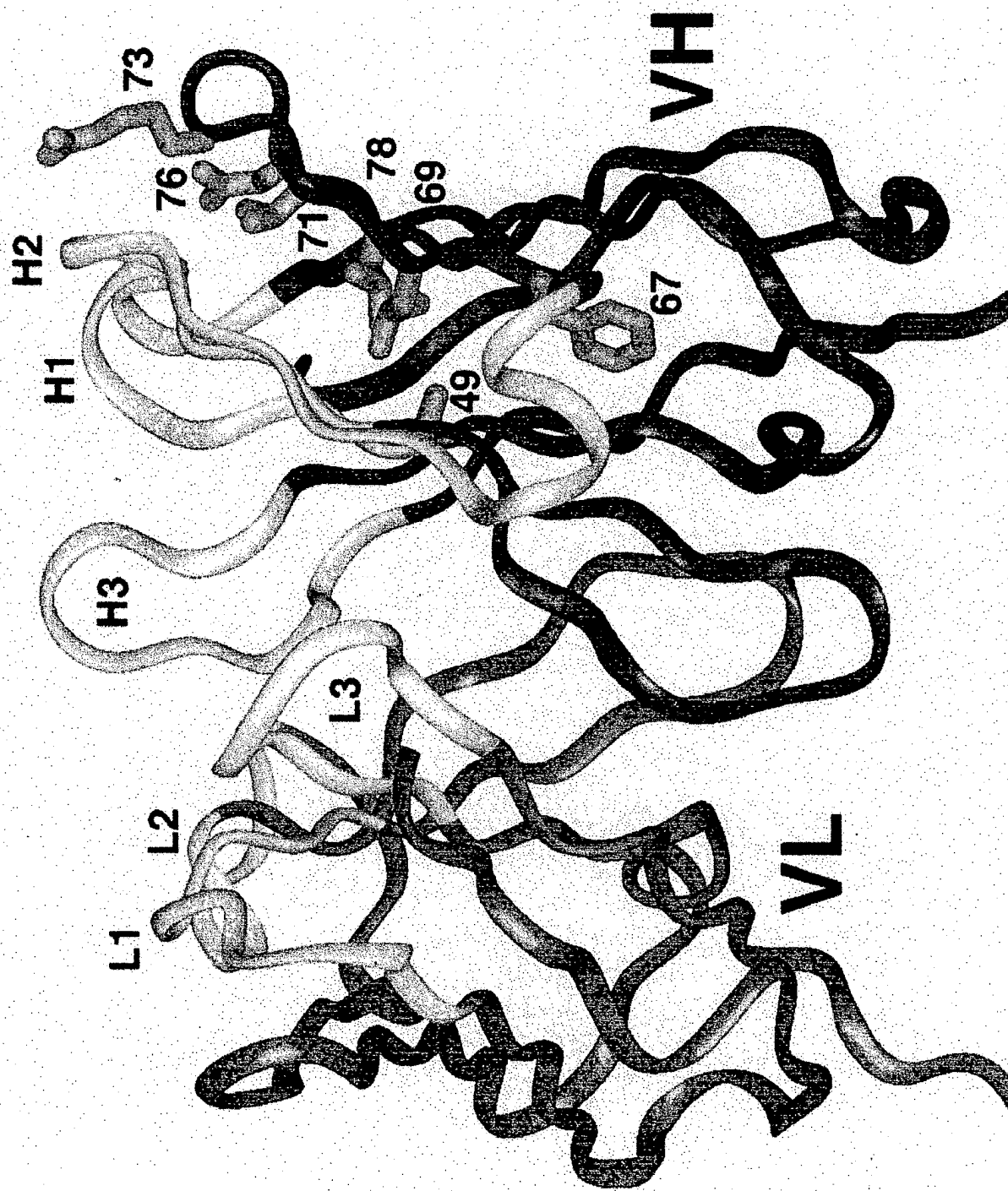
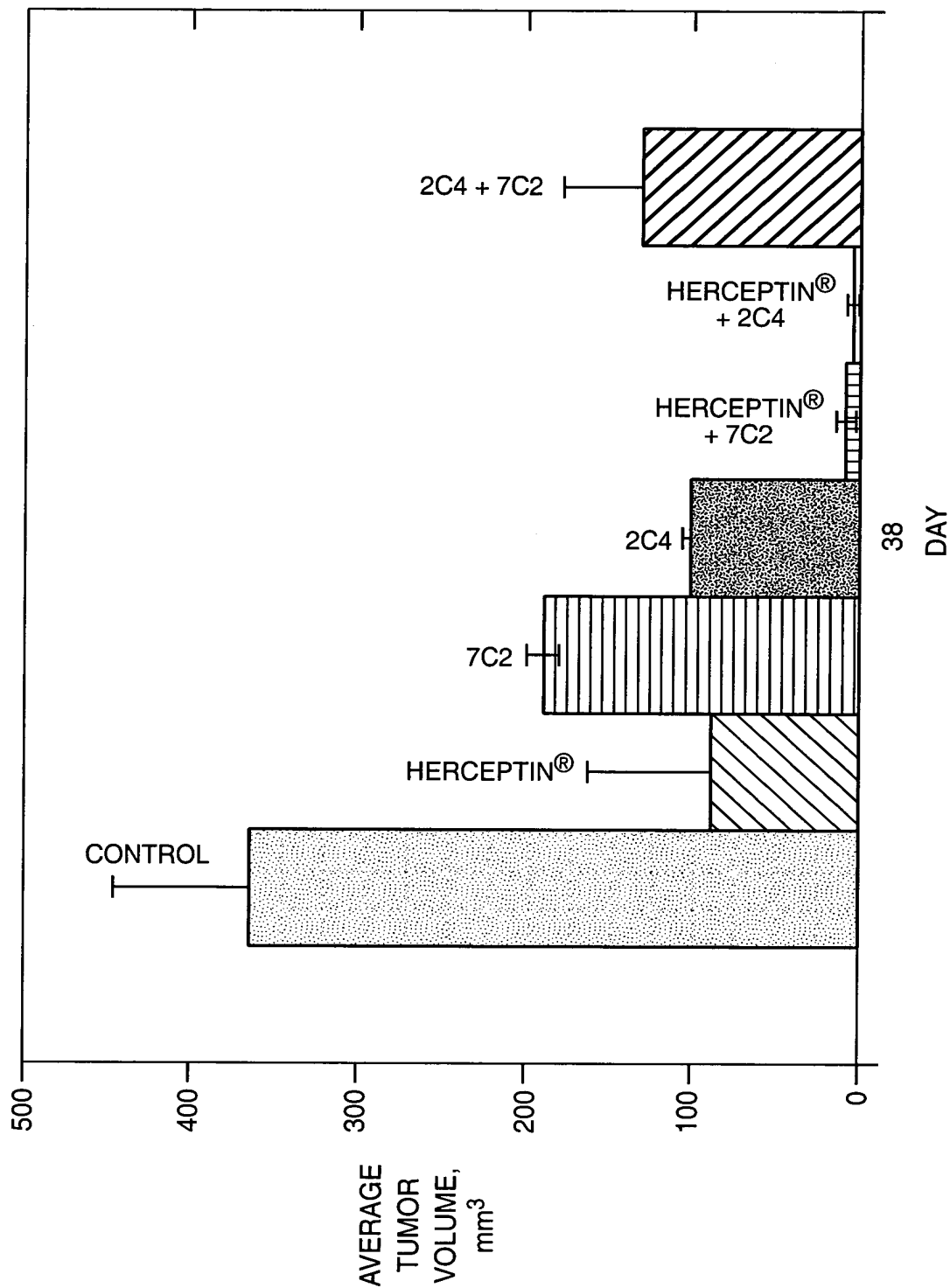


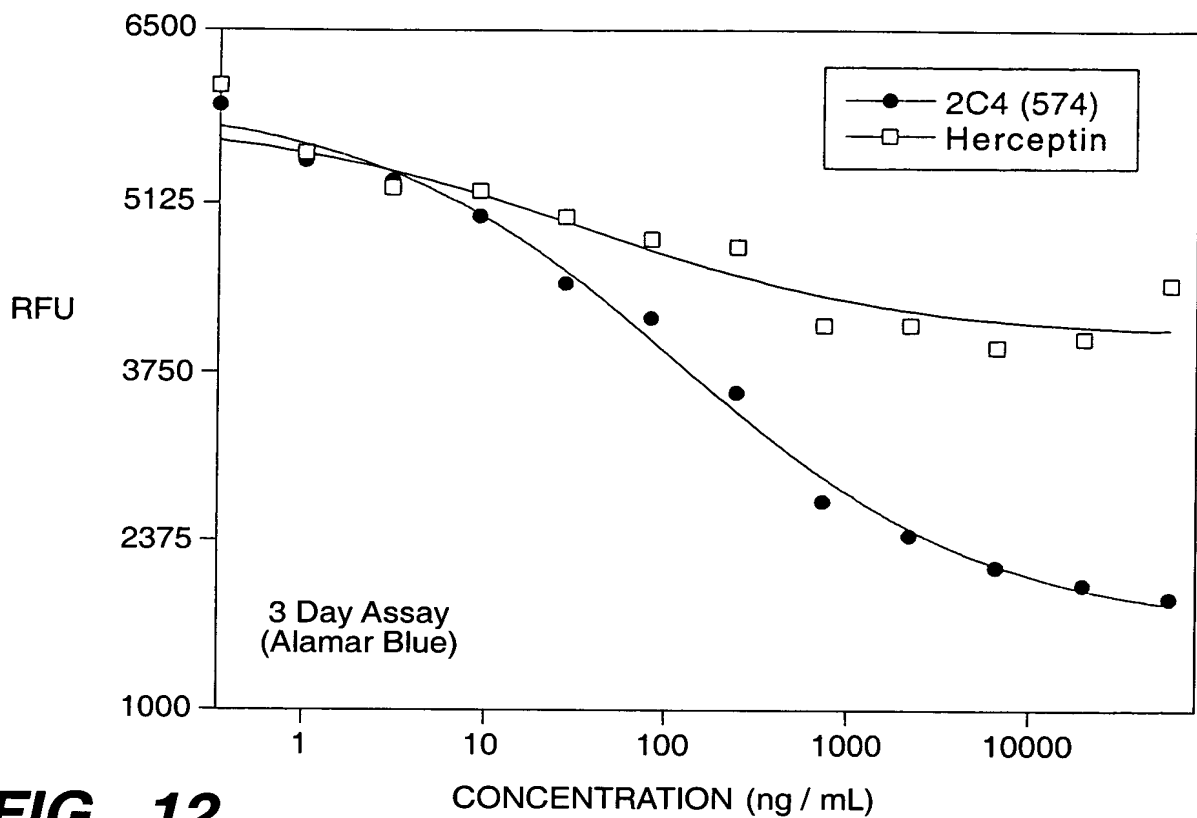
FIG. 9

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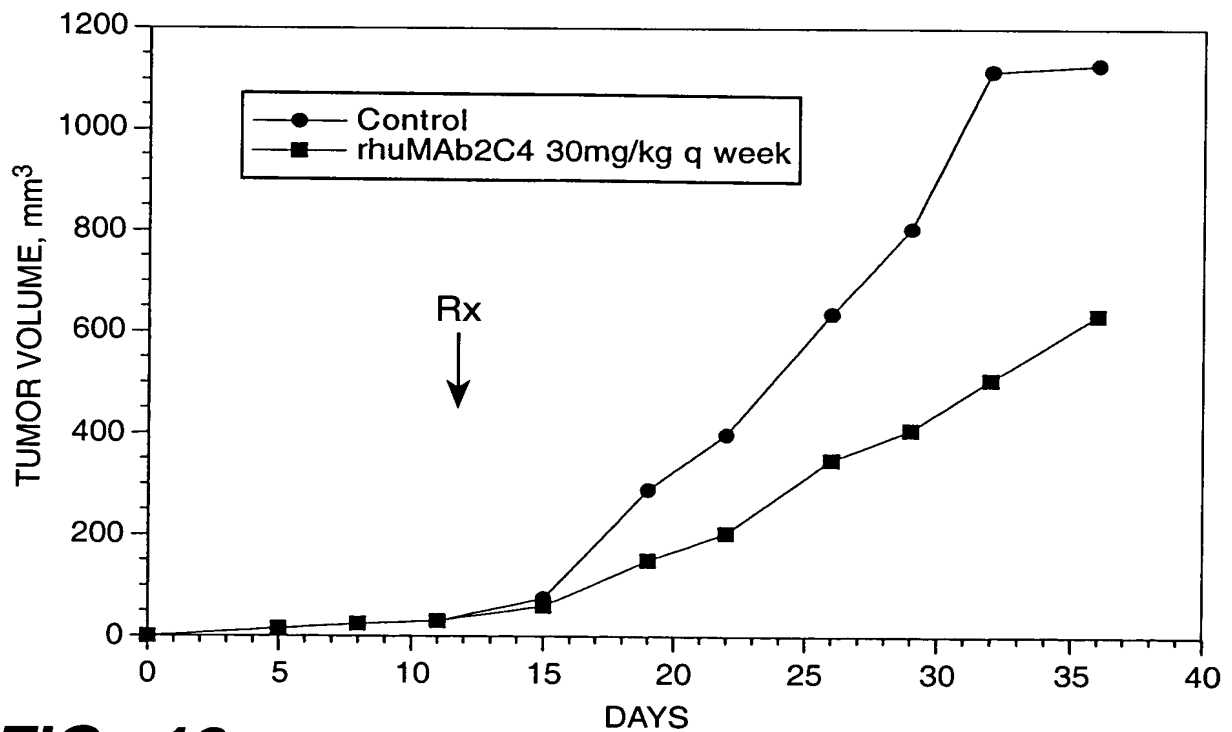


**FIG. 11**

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**FIG. 12**



**FIG. 13**